

# BN720 100% Solid Grade Thermoplastic Acrylic Resin

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## Introduction

LG MMA Corp. produces a wide range of acrylic coating resins based on its unique polymerization technology.

LG MMA's BA720 and BN720 are 100% solid methacrylic resins that have excellent weathering resistance, discoloration resistance, transparency, gloss, scratch resistance and solvent resistance. In general, they can be used with other additives in gravure ink, plastic coating and printing ink.

They can also be applied to top coating of pencils and pens because of excellent cutting characteristics.

They are soluble in various solvents including aromatic, ester and ketone groups.

## Typical Application

- ☐ Protective coating for plastics
- ☐ Printing ink
- ☐ PVC finishes

## Physical Properties

Appearance	Powder
Solid content, mass %	100
Molecular weight (Mw, ave.)	50,000
Density @ 25°C, kg/liter	1.19
Brookfield viscosity at 23°C, cPs (40% solution in MEK)	1,780
Glass transition temperature (°C)	114
Acid value (mg KOH/g)	<1

REMARKS : The listed values should be used for reference purpose only.

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## Resins Viscosity in Various Solvents

Grade	Alcohol				Ester		Hydrocarbon		Ketone	
	Methanol	Ethanol	IPA	Butanol	Ethyl Acetate	Ethyl Acetate	Toluene	Xylene	Acetone	MEK
BA030	Insoluble	Insoluble	Insoluble	Insoluble	100 <sup>30</sup>	105 <sup>30</sup>	700	170 <sup>30</sup>	250	260
BA122	Insoluble	Insoluble	Insoluble	P.S.	290	410	310	480	150	140
BA123	Insoluble	Insoluble	Insoluble	P.S.	300	410	350	555	150	140
BA140	Insoluble	Insoluble	Insoluble	Insoluble	170 <sup>30</sup>	2,340	2,300	75 <sup>20</sup>	490	610
BA141	Insoluble	Insoluble	Insoluble	Insoluble	100 <sup>30</sup>	1,150	830	1,400	360	350
BA410	Insoluble	Insoluble	Insoluble	Insoluble	315	445	340	600	160	160
BA525	Insoluble	Insoluble	Insoluble	Insoluble	200 <sup>30</sup>	280 <sup>30</sup>	130 <sup>20</sup>	P.S.	970	1,050
BA531	Insoluble	Insoluble	Insoluble	Insoluble	770 <sup>30</sup>	80 <sup>20</sup>	8,500	90 <sup>20</sup>	7,280	6,600
BA611	Insoluble	Insoluble	Insoluble	Insoluble	110 <sup>30</sup>	1,600	1,070	50 <sup>20</sup>	530	520
BA720	Insoluble	Insoluble	Insoluble	Insoluble	270 <sup>30</sup>	440 <sup>30</sup>	2,430	65 <sup>20</sup>	155 <sup>30</sup>	2,130
BN720	Insoluble	Insoluble	Insoluble	Insoluble	220 <sup>30</sup>	380 <sup>30</sup>	2,300	63 <sup>20</sup>	140 <sup>30</sup>	1,780

- Values are Brookfield viscosity (cP), at 23°C of a 40% solids solution, except as noted.
- Superscript indicates % solids.
- I.S. : Insoluble / P.S. : Partially soluble (Test Method : Solubility 20wt% resin at room temperature )

## Safe Handling Information

LG MMA Material Safety Data Sheet contain pertinent information that you need to protect your employees and customers against any known health and safety hazards associated with our products.

## Contact

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